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ABSTRACT

This directory lists the unit-credit titles of the technology education courses offered in Manitoba, along with their corresponding department codes and course numbers. Sections A through C list the unit-credit titles of the following vocational-industrial clusters: heavy industrial (agriculture, auto body repair, building construction, building custodial services, building operations and power engineering, electricity, heavy-duty mechanics, horticulture and landscaping, industrial controls and automation, industrial electricity, industrial mechanics, machine shop, metals and aerospace technology, mineral science, plastics technology, power technology, power mechanics, refrigeration and air-conditioning, resources and environmental management, sheet metal works, welding); light industrial (advertising art, audio recording productions and performance, drafting, electronic communications, electronics, fashion technology and design, graphic arts, industrial electronics, jewelry arts, photography, production art, radio and television broadcasting, technical drafting); and human services (child care, cosmetology, dental assisting, dental technology, family and community services and health programs, food services, health care assistant, health services admissions, hotel hospitality, human services, pharmacy technicians). Listed in Sections D and E are unit-credit titles for home economics and industrial arts courses. (MN)

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CONTENTS

	Page
FOREWORD	iii
SECTION A: TECHNOLOGY EDUCATION VOCATIONAL INDUSTRIAL (Heavy Industrial Cluster H.I.)	1
Agriculture	2
Auto Body Repair	3
Building Construction	4
Building Custodial Services	6
Building Operations and Power Engineering - CVE	7
Diversified CVE (Flin Flon)	8
Electricity	9
Heavy Duty Mechanics	10
Horticulture and Landscaping	11
Industrial Controls and Automation	12
Industrial Electricity	13
Industrial Mechanics	14
Machine Shop	15
Metals and Aerospace Technology	16
Mineral Science	17
Plastics Technology	18
Power Mechanics	19
Refrigeration and Air Conditioning	20
Resources and Environmental Management	21
Sheet Metal Works	22
Welding	23

CONTENTS (cont'd.)

	Page
SECTION B: TECHNOLOGY EDUCATION VOCATIONAL INDUSTRIAL (Light Industrial Cluster L.I.)	24
Advertising Art	25
Audio Recording Productions and Performance	26
Drafting	27
Electronic Communications	28
Electronics	29
Fashion Technology and Design	31
Graphic Arts	32
Industrial Electronics	33
Jewelry Arts	34
Photography	35
Production Art	36
Radio and Television Broadcasting	37
Technical Drafting	38
SECTION C: TECHNOLOGY EDUCATION VOCATIONAL INDUSTRIAL (Human Services Cluster H.S.)	39
Child Care	40
Cosmetology	41
Dental Assisting	42
Dental Technology	43
Family and Community Services and Health Programs	44
Food Services	46
Health Care Assistant - CVE	47
Health Services Admissions	48
Hotel Hospitality - CVE	49
Human Services	50
Pharmacy Technician - CVE	51
SECTION D: TECHNOLOGY EDUCATION HOME ECONOMICS	52
SECTION E: TECHNOLOGY EDUCATION INDUSTRIAL ARTS	54

FOREWORD

The 1991 funding review resulted in the decision to change the categorial grants for vocational programs from a program focus to a unit-credit focus. This decision required that unit-credit titles be identified for all of the programming delivered under the general areas of Vocational Industrial, Industrial Arts, and Home Economics.

For those curricula developed and approved by Manitoba Education and Training, committees of teachers were called together, and unit-credit titles were identified. For those curricula developed at the school, but approved by Manitoba Education and Training, the teachers who delivered their special programs submitted unit-credit titles.

To meet the needs of students who wish to maximize their Technology Education electives in Senior 1 and Senior 2, half-credits have been identified for those levels.

The numbering system to be used for Technology Education unit-credits will show the designation as follows:

- Vocational Industrial unit-credits will be designated as **Specialized** (S). This indicates that learning experiences and appropriate skills lead to further studies at the post-secondary level.
- Industrial arts unit-credits will be designated as **General** (G). This indicates general education experiences for all students.
- for all unit-credits, the **Modified** (M) designation will be used to indicate courses for which the curriculum has been modified to take into account the capabilities of students with special needs.
- the designation of **Applied** (V) refers to English Language Arts, Mathematics, and Science courses designed specifically to apply to Technology Education (Vocational) programs.

The numbering system uses a three-character, alpha-numeric code. The first number represents the targeted senior year for which the course was developed. The second number identifies the source and credit value of the course development. The third (alpha) character identifies the course designation.

Examples:

- **Intro to Electronics 10S** (Senior I, Department developed or approved for one credit, Specialized)
- **Introduction to H.I. Tech 15S** (Senior 1, Department developed or approved for one-half credit, Specialized)
- **Family Studies 25G** (Senior 2, Department developed or approved for one-half credit, General).
- **Machine Tool Technology 30G** (Senior 3, Department developed or approved for one credit, General).

TECHNOLOGY EDUCATION (Vocational Industrial)

The "UNIT-CREDIT TITLES UNDER PROGRAM HEADINGS, DIRECTORY" is divided into three clusters of titles.

- Heavy Industrial (H.I.) encompasses those unit-credits which deal with heavy trades (indentured and non-indentured), and skills which require somewhat similar tools, usually outdoor working conditions, and similar processes.
- Light Industrial (L.I.) refers to those unit-credits which deal with light trades and occupations (indentured and non-indentured), and skills which require similar working conditions such as an in-door environment, paper or computer oriented medium, and finer motor skills.
- Human Services (H.S.) includes those indentured and non-indentured trades and occupations which deal with the service sector, human condition, and people-oriented skills.

To determine the appropriate unit-credit title to be used in an approved program, the "UNIT-CREDIT TITLES UNDER PROGRAM HEADINGS, DIRECTORY" will contain a complete listing of approved unit-credit titles. Also shown are the department reporting code numbers for registering and reporting student marks.

TECHNOLOGY EDUCATION (Industrial Arts)

The secondary level curriculum for Industrial Arts was originally prepared for grades 10 through 12. With the new high school program embracing grades 9 through 12, the Industrial Arts 101, 201, 301 curriculum has been re-designated as Senior 1, 2, and 3 respectively. Half credit versions of the Senior 1 and Senior 2 curriculum have been identified for those schools that wish to provide half-credits in the complementary offerings. New course titles have been identified for the Industrial Arts unit-credits.

The Senior 4 curriculum is yet to be developed. Seniors 1 to 3 will undergo minor amendments to reflect a Seniors 1 to 4 approach.

TECHNOLOGY EDUCATION (Home Economics)

Home Economics for secondary level programming includes curriculum which was originally prepared for grades 9 through to 12. Now, the Home Economics 9-12 curriculum is designated Senior 1 to Senior 4 respectively. Half-credit versions of the Senior 1 and Senior 2 curriculum have been identified for those schools that prefer to provide half-credits in the complementary offerings. The original titles have been retained under the new program and designations.

TECHNOLOGY EDUCATION (Programs)

The unit-credit titles are listed under program headings. This is a method for categorizing the unit-credit titles, and may or may not place the desired unit-credit title under an "approved program" heading which a school has registered. Schools are invited to build their programs, and to have them approved (as outlined in the "TECHNOLOGY EDUCATION GUIDELINES") by selecting unit-credit titles from one or more of the groupings. For example, a construction program may be designed to meet apprenticeship requirements; specialty skills associated with the trade; special interest options; or special needs programming. Such a program may be developed by taking unit-credits from the following headings: Building Construction; Electricity; Refrigeration and Air Conditioning; and/or Sheet Metal Works, **and placing them within an approved program title identified by the school, and adhering to the program criteria outlined in the TECHNOLOGY EDUCATION GUIDELINES, SECTION 3(a).**

TECHNOLOGY EDUCATION (Supports)

The supports to unit-credit titles may be found in the funding system, the program approval system, articulation arrangements, and general consultation services.

The "TECHNOLOGY EDUCATION GUIDELINES", and the "WORK EDUCATION GUIDELINES" are provided as guides to be used in planning, preparing, and assessing the outcomes for program offerings in schools.

Vocational Industrial
[Heavy Industrial Cluster (H.I.)]

The unit-credits listed as "(Introduction to H.I. Tech) 10S," **or** "(Introduction to H.I. Tech) 15S," are to be considered **generic**. Students may move this introductory and exploratory experience from one program to another within the H.I. cluster.

These two introductory and exploratory credits are directly articulated with the Technology Education **(Industrial Arts)** credits designated as "Heavy Industrial." [See "Note re: Articulation with Technology Education (Vocational Industrial) Programs" under the TECHNOLOGY EDUCATION (Industrial Arts) section.]

CATEGORY I

AGRICULTURE

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8000	Intro to Agriculture	10S
8001	Intro to Agriculture	15S
8002	Animal Production	20S
8003	Plant Production	20S
8004	Intro Horticulture	20S
8005	Intro Farm Skills	20S
8006	Intermediate Horticulture	30S
8007	Advanced Horticulture	40S
8008	Beef Cattle	40S
8009	Broilers	40S
8010	Dairy	40S
8011	Farm Machinery	40S
8012	Honey Bees	40S
8013	Laying Hens	40S
8014	Sheep	40S
8015	Swine	40S
8016	Turkeys	40S
8017	Applied Agriculture	40S

CATEGORY I

AUTO BODY REPAIR

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8025	Intro to Auto Body Repair	10S
8026	Intro to Auto Body Repair	15S
8027	Auto Body Metals	20S
8028	Minor Damage Repair	20S
8029	Intro to Paint Prep	30S
8030	Body Alignment	30S
8031	Component Repair/Replacement	30S
8032	Electrical and Mechanical Service	30S
8033	Refinishing Preparation	30S
8034	Collision Repair	40S
8035	Painting and Refinishing	40S
8036	Shop Management	40S
8037	Advanced Refinishing	40S
8038	Applied Auto Body	40S

CATEGORY I

BUILDING CONSTRUCTION

DEPT. CODE	UNIT-CREDIT TITLE	COURSE TITLE
8880	(Introduction to H.I.Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8045	Intro Building Construction	10S
8046	Intro Building Construction	15S
8047	Intro Painting and Decor	20S
8048	Material Application	20S
8049	Power Tools	20S
8050	Drafting and Surveying	20S
8051	Applied Construction	30S
8052	Trowel Trades	30S
8053	Finishing	30S
8054	Concrete	30S
8055	Framing	30S
8056	Sheet Metal and Piping	30S
8057	Cabinets	30S
8058	Interior/Exterior	30S
8059	Colour Mixing	30S
8060	Wood and Wood Finishing	30S
8061	Drywall and Taping	30S
8062	Applied Painting	30S
8063	Construction Electrical	40S
8064	Stairs	40S
8065	Heating and Air Conditioning	40S

(cont'd.)

CATEGORY I

BUILDING CONSTRUCTION (cont'd.)

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8066	Advanced Applied Construction	40S
8067	Roof Framing	40S
8068	Spray Painting	40S
8069	Interior Design	40S
8070	Wall coverings	40S
8071	Applied Decorating	40S
8072	*DE Basic Machines	30S
8073	*DE Advanced Machines	40S

* Delivered by Distance Education through arrangements with ACC

CATEGORY II

BUILDING CUSTODIAL SERVICES

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8085	Intro to Custodial Services	10S
8086	Intro to Custodial Services	15S
8087	Floor Types	20S
8088	Floor Care	20S
8089	Operational Tasks and Schedules	30S
8090	Institutional Cleaning	30S
8091	Carpet Maintenance	30S
8092	Custodial Practices	30S
8093	Emergency Responsibilities	40S
8094	Groundskeeping and Pest Control	40S
8095	Workplace Health and Safety	40S
8096	Power Engineering	40S
8097	Applied Custodial Services	40S

BUILDING OPERATIONS AND POWER ENGINEERING

CATEGORY II

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8100	Intro to Building Operations	40S
8101	Intro to Building Operations	45S
8102	Safety and Security Procedures	40S
8103	Custodial Practices	40S
8104	Interior Decorating	40S
8105	Basic Carpentry Skills	40S
8106	Basic Plumbing Skills	40S
8107	Grounds Maintenance	40S
8108	Preventative Maintenance	40S
8109	5th Class Power Engineering	40S
8110	Applied Operations	40S

CATEGORY II

DIVERSIFIED CVE
(IN FLIN FLON ONLY)

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8115	Intro to (the trade)	10S
8116	Tools and Safety	40S
8117	Applied Theory and Skills I	40S
8118	Applied Theory and Skills II	40S
8119	Applied Theory and Skills III	40S
8120	Applied Theory and Skills IV	40S
8121	Applied Theory and Skills V	40S

CATEGORY I

ELECTRICITY

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8125	Intro to Electricity	10S
8126	Intro to Electricity	15S
8127	Two Element Devices	20S
8128	Three Element Devices	20S
8129	Residential Wiring	30S
8130	Industrial Wiring	30S
8131	DC Machines	30S
8132	AC Machines	30S
8133	AC Motor Controls	40S
8134	Digital Techniques	40S
8135	Three Phase Power	40S
8136	Micro Control	40S
8137	Applied Electricity	40S

CATEGORY I

HEAVY DUTY MECHANICS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8145	Intro to H.D. Mechanics	10S
8146	Intro to H.D. Mechanics	15S
8147	Diesel Engines	20S
8148	H.D Chassis	20S
8149	Servicing Diesels	30S
8150	H.D. Brake Systems	30S
8151	Diesel Fuel Systems	30S
8152	H.D. Electrical Systems	40S
8153	H.D. Drive Trains	40S
8154	H.D. Hydraulic Systems	40S
8155	Applied H.D. Mechanics	40S

HORTICULTURE AND LANDSCAPING

CATEGORY I

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8160	Intro to Soil Management	10S
8161	Intro to Soil Management	15S
8162	Seed Germination	20S
8163	Crop Management	20S
8164	Propagation	30S
8165	Fertilizer	30S
8166	Plant Identification	30S
8167	Applied Greenhouse Techniques	30S
8168	House Plant Maintenance	40S
8169	Disease Control	40S
8170	Outside Maintenance	40S
8171	Applied Horticulture	40S
8172	Applied Landscaping	40S

INDUSTRIAL CONTROLS AND AUTOMATION

CATEGORY I

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8175	Intro to Automation	20S
8176	Basic PLC's	20S
8177	Advanced Electronics and Fluidics	30S
8178	Intermediate PLC's	30S
8179	Advanced PLC's	40S
8180	Process Control	40S
8181	Applied Controls and Automation	40S

CATEGORY I

INDUSTRIAL ELECTRICITY

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8185	Intro to Industrial Electricity	10S
8186	Intro to Industrial Electricity	15S
8187	AC Machines and Transformers	20S
8188	Intro to Motor Controls	20S
8189	Canadian Electrical Code	30S
8190	Intermediate Motor Controls	30S
8191	Advanced Motor Controls	40S
8192	Applied Ind. Electricity	40S

CATEGORY I

INDUSTRIAL MECHANICS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8200	Intro to Industrial Mechanics	10S
8201	Intro to Industrial Mechanics	15S
8202	Blueprint Management	20S
8203	Hand and Power Tools	20S
8204	Trade Related Science	30S
8205	Lathes, Mills and Shapers	30S
8206	Fitting and Assembly	30S
8207	Applied Hydraulics and Pneumatics	40S
8208	Preventative Maintenance	40S
8209	Basic C.N.C. Operations	40S
8210	Intermediate C.N.C. Operations	40S

CATEGORY I

MACHINE SHOP

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8215	Intro to Machining Tech	10S
8216	Intro to Machining Tech	15S
8217	Bench Metal	20S
8218	Drill Press and Power Saw	20S
8219	Lathe and Shaper	30S
8220	Milling and Grinding	30S
8221	Intermediate Lathe	30S
8222	Advanced Lathe	30S
8223	Advanced Milling	40S
8224	C.N.C. Machining	40S
8225	Applied Machining Tech	40S
8226	Advanced C.N.C	40S

METALS AND AEROSPACE TECHNOLOGY

CATEGORY I

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8250	Intro to Aerospace Tech	10S
8251	Intro to Aerospace Tech	15S
8252	Metal Machines	20S
8253	Airframe Basics	20S
8254	Aircraft Structures	30S
8255	Airframe Repair	30S
8256	Aircraft Welding	40S
8257	Applied Aerospace Tech	40S

CATEGORY I

MINERAL SCIENCE

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8265	Intro to Mining Tech	10S
8266	Intro to Mining Tech	15S
8267	Solar System	20S
8268	Surveying Levels	20S
8269	Rocks and Fossils	30S
8270	Survey Transits	30S
8271	Intro to Chemical Engineering	30S
8272	Geologic Processes	40S
8273	Applied Surveying	40S
8274	Intro to Civil Engineering	40S
8275	Applied Mineral Science	40S

CATEGORY I

PLASTICS TECHNOLOGY

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8280	Intro to Plastics	10S
8281	Intro to Plastics	15S
8282	Extrusion Technology	20S
8283	Injection Moulding	20S
8284	Intermediate Fibreglass Tech	30S
8285	Advanced Composite Tech	30S
8286	Mould Design and Construction	30S
8287	Fibreglass Production	30S
8288	Advanced Thermoset Tech	40S
8289	Thermoplastic Technologies	40S
8290	Applied Plastics Tech	40S
8291	Applied Specialties	40S

CATEGORY I

POWER MECHANICS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8295	Intro to Power Mechanics	10S
8296	Intro to Power Mechanics	15S
8297	Engine Fundamentals	20S
8298	Basic Service	20S
8299	Brake Systems	30S
8300	Fuel Systems	30S
8301	Electrical Systems	30S
8302	Drive Trains	30S
8303	Chassis	30S
8304	Engine Reconditioning	30S
8305	Exhaust and Emissions	30S
8306	Automatic Transmissions	40S
8307	Automotive Electronics	40S
8308	Climate Control and Accessories	40S
8309	Diagnosis and Correction	40S
8310	Special Applications	40S
8311	Applied Power Mechanics	40S

CATEGORY I

REFRIGERATION AND AIR CONDITIONING

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8325	Intro to Air Conditioning	10S
8326	Intro to Air Conditioning	15S
8327	Refrigerants	20S
8328	Controls	20S
8329	Cooling Fundamentals	30S
8330	Electrical Controls	30S
8331	Evaporators	40S
8332	Condensers	40S
8333	System Performance	40S
8334	Applied Controls Service	40S

CATEGORY I

RESOURCES AND ENVIRONMENTAL MANAGEMENT

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8340	Intro to Resource Management	10S
8341	Intro to Resource Management	15S
8342	Woods Orientation	20S
8343	Mapping and Surveying	20S
8344	Ecology and Field Biology	30S
8345	Habitat Management	30S
8346	Silviculture	30S
8347	Forest Management	30S
8348	Advanced Forest Management	30S
8349	Wildlife Management	40S
8350	Fisheries Management	40S
8351	Hydrology	40S
8352	Biostatistical Analysis	40S
8353	Applied Resource Management	40S

CATEGORY I

SHEET METAL WORKS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8235	Intro to Metals	10S
8236	Intro to Metals	15S
8237	Measurement and Layout Techniques	20S
8238	Sheet Metal Processes	20S
8239	Sketching, Patterns and Blueprints	30S
8240	Advanced Pattern Development	30S
8241	Metal Art Design	30S
8242	Advanced Designs in Metalwork	40S
8243	Applied Layout and Design	40S
8244	Applied Metals	40S

CATEGORY I

WELDING

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8880	(Introduction to H.I. Tech)	10S
8881	(Introduction to H.I. Tech)	15S
8360	Intro to Welding	10S
8361	Intro to Welding	15S
8362	Basic Acetylene Welding	20S
8363	Basic Arc Welding	20S
8364	Advanced Acetylene Welding	30S
8365	Positional Arc Welding	30S
8366	Intro to M.I.G. Welding	30S
8367	Intermediate M.I.G. Welding	30S
8368	Introduction to T.I.G	30S
8369	Advanced Arc Welding	40S
8370	Advanced M.I.G.	40S
8371	Projects and Testing	40S
8372	Applied Welding	40S
8373	Applied Specialties	40S

Vocational Industrial
[Light Industrial Cluster (L.I.)]

The unit-credits listed as "(Introduction to L.I. Tech) 10S," **or** "(Introduction to L.I. Tech) 15S," are to be considered **generic**. Students may move this introductory and exploratory experience from one program to another within the L.I. cluster.

The two introductory and exploratory credits are directly articulated with the technology Education (**Industrial Arts**) credits designated as "Light Industrial." [See "Note re: Articulation with Technology Education (Vocational Industrial) Programs" under the TECHNOLOGY EDUCATION (Industrial Arts) section].

CATEGORY II

ADVERTISING ART

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8380	Intro to Advertising Art	10S
8381	Intro to Advertising Art	15S
8382	Drawing	20S
8383	Design	20S
8384	Production Art	20S
8385	Illustration	30S
8386	Advertising Layout	30S
8387	Type Design	30S
8388	Advanced Production Art	30S
8389	Typography	40S
8390	Graphic Design	40S
8391	Advanced Applications	40S
8392	Portfolio Management	40S
8393	Applied Advertising Art	40S

AUDIO RECORDING PRODUCTION AND PERFORMANCE

CATEGORY I

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8400	Intro to Audio	10S
8401	Intro to Audio	15S
8402	Intro to Music Theory	20S
8403	Intro to Music Skills	20S
8404	Audio Engineering - Live	30S
8405	Intermediate Music Theory	30S
8406	History of Music	30S
8407	Audio Engineering - Studio	30S
8408	Advanced Music Theory	40S
8409	Electronic Music	40S
8410	Applied Audio	40S
8411	History of Modern Music	40S
8412	Arranging	40S
8413	Advanced Applied Audio	40S

CATEGORY II

DRAFTING

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8415	Intro to Drafting	10S
8416	Intro to Drafting	15S
8417	Basic Design	20S
8418	Dimensioning	20S
8419	Sections and Views	30S
8420	Architectural Drafting	30S
8421	Mechanical Drafting	30S
8422	Topographical Drawing	30S
8423	Intro to CAD	30S
8424	Advanced Architectural	40S
8425	Advanced Mechanical	40S
8426	Advanced CAD	40S
8427	Applied Architectural	40S
8428	Applied Mechanical	40S
8429	Applied Topographical	40S
8430	Specialized Applications	40S

CATEGORY I

ELECTRONIC COMMUNICATIONS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8475	Intro to Electronic Communication	10S
8476	Intro to Electronic Communication	15S
8477	Elements of Broadcasting	20S
8478	Broadcasting Technology	20S
8479	Research, Write and Perform	30S
8480	Television Production	30S
8481	Programming for Radio	30S
8482	Quality Control	40S
8483	Media Literacy	40S
8484	Broadcasting Regulations	40S
8485	Applied Elec. Communications	40S

CATEGORY I

ELECTRONICS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8440	Intro to Electronics	10S
8441	Intro to Electronics	15S
8442	DC Circuits	20S
8443	AC Circuits	20S
8444	Semiconductor Devices	30S
8445	Semiconductor Amplifiers	30S
8446	Power Control Devices	30S
8447	Communication Systems	30S
8448	Digital Logic	30S
8449	Basic Tech Applications	30S
8450	Microprocessors	30S
8451	Intro CAD/CAM/CNC	30S
8452	Microprocessor Interfacing	40S
8453	Advanced Tech Applications	40S
8454	Advanced Communications	40S
8455	Troubleshooting and Repair	40S

(cont'd.)

CATEGORY I

ELECTRONICS (cont'd.)

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8456	Digital Applications	40S
8457	Advanced CAD/CAM/CNC	40S
8458	Robotics	40S
8459	Fluid Power	40S
8460	Microprocessor Applications	40S
8461	Programmable Logic Controllers	40S
8462	Applied Electronics	40S
8307	* Automotive Electronics	40S

* See Power Mechanics

FASHION TECHNOLOGY AND DESIGN

CATEGORY II

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8490	Intro to Fashion Technology	10S
8491	Intro to Fashion Technology	15S
8492	Fashion Production	20S
8493	Fashion Design	30S
8494	Pattern Design	30S
8495	Advanced Pattern Design	30S
8496	Advanced Fashion Production	30S
8497	Advanced Fashion Design	30S
8498	Pattern Design Applications	30S
8499	Design Applications	40S
8500	Machine Knitting	40S
8501	Fashion Entrepreneurship	40S
8502	Applied Fashion Tech	40S

CATEGORY I

GRAPHIC ARTS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8505	Intro to Graphics	10S
8506	Intro to Graphics	15S
8507	Basic Design	20S
8508	Line Camera	20S
8509	Reproduction Methods	30S
8510	Composition	30S
8511	Desktop Publishing	30S
8512	Darkroom Procedures	30S
8513	Platemaking	30S
8514	Press Technology	30S
8515	Paper and Ink Technology	30S
8516	Image Assembly	30S
8517	Colour Stripping	30S
8518	Equipment Maintenance	30S
8519	Project Estimating	30S
8520	Advanced Presswork	40S
8521	Advanced Platemaking	40S
8522	Advanced Camera	40S
8523	Advanced Desktop Publishing	40S
8524	Advanced Composition	40S
8525	Binding and Finishing	40S
8526	Applied Graphics	40S

CATEGORY I

INDUSTRIAL ELECTRONICS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	I5S
8535	Intro to Ind. Electronics	10S
8536	Intro to Ind. Electronics	15S
8537	Electronic Test Equipment	30S
8538	Electronic Fabrication Techniques	30S
8539	Electronic Component Fundamentals	30S
8540	Electronic Circuit Fundamentals	30S
8541	Power Electronics	40S
8542	Applied Ind. Electronics	40S

CATEGORY I

JEWELRY ARTS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8550	Intro to Jewelry Arts	10S
8551	Intro to Jewelry Arts	15S
8552	Lost Wax Casting	20S
8553	Jewelry Design	20S
8554	Construction and Soldering	30S
8555	Colouring and Testing	30S
8556	Forming Techniques	30S
8557	Intermediate Gem Setting	30S
8558	Gem Testing	40S
8559	Repairing Jewelry	40S
8560	Advanced Construction Techniques	40S

CATEGORY I

PHOTOGRAPHY

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8565	Intro to Photography	10S
8566	Intro to Photography	15S
8567	Photography Equipment	20S
8568	Composition and Design	20S
8569	Lighting	30S
8570	Darkroom Applications	30S
8571	Basic Studio	30S
8572	Format Photography	30S
8573	Monochrome Photography	30S
8574	Colour Photography	30S
8575	Colour Transparencies	30S
8576	Advanced Studio	40S
8577	Advanced Lighting	40S
8578	Portrait Photography	40S
8579	Product Photography	40S
8580	Multi-Media	40S
8581	Portfolio Management	40S
8582	Advanced Colour Photography	40S
8583	Applied Photography	40S

CATEGORY II

PRODUCTION ART

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8595	Exploring Production Art	10S
8596	Exploring Production Art	15S
8597	Drawing	20S
8598	Design and Layout	20S
8599	Computer Imaging	30S
8600	Camera-ready Art	30S
8601	Related Photography	30S
8602	Negative Assembly	30S
8603	Printing and Press Operation	40S
8604	Job Readiness	40S

RADIO AND TELEVISION BROADCASTING

CATEGORY I

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8610	Intro to Broadcasting	10S
8611	Intro to Broadcasting	15S
8612	Broadcasting Theory	20S
8613	Operation of Equipment	20S
8614	Scripting and Planning	30S
8615	Production Applications	30S
8616	Intermediate Broadcasting	30S
8617	Intermediate Equipment	30S
8618	Intermediate Scripting	30S
8619	Intermediate Production	30S
8620	Advanced Broadcasting	40S
8621	Advanced Equipment	40S
8622	Advanced Scripting	40S
8623	Advanced Production	40S

CATEGORY II

TECHNICAL DRAFTING

(SWTC ONLY)

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8882	(Introduction to L.I. Tech)	10S
8883	(Introduction to L.I. Tech)	15S
8630	Board Drafting	10S
8631	Board Drafting	15S
8632	Architectural Drafting I	20S
8633	Machine Drafting I	20S
8634	Advanced Board Drafting	30S
8635	Auto CAD	30S
8636	Architectural Drafting II	30S
8637	Architectural Drafting III	30S
8638	Machine Drafting II	30S
8639	Architectural Drafting IV	40S
8640	Advanced Auto CAD	40S
8641	Machine Drafting III	40S
8642	Machine Drafting IV	40S
8643	Applied Technical Drafting	40S

Vocational Industrial
[Human Services Cluster (H.S.)]

The unit-credits listed as "(Introduction to H.S. Tech) 10S," or "(Introduction to H.S. Tech) 15S," are to be considered **generic**. Students may move this introductory and exploratory experience from one program to another within the H.S. cluster.

These two introductory and exploratory credits are directly articulated with the Technology Education (**Home Economics**) credits designated as "Human Services." [See "Note re: Articulation with Technology Education (Vocational Industrial) Programs" under the TECHNOLOGY EDUCATION (Home Economics) section].

CATEGORY I

CHILD CARE

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8650	Intro to Child Care	10S
8651	Intro to Child Care	15S
8652	Intro to Infants	20S
8653	Intro to Preschool	20S
8654	Children's Behaviour	30S
8655	Curriculum Ideas	30S
8656	Human Development	30S
8657	Child Care Techniques	30S
8658	Intro to School Age	30S
8659	Intro to Applied Child Care	30S
8660	Historical Perspectives	30S
8661	Communication Skills	30S
8662	Family Dynamics & Child Abuse	40S
8663	Curriculum Planning	40S
8664	Advanced Preschool	40S
8665	Advanced School Age	40S
8666	Applied Child Care	40S
8667	Advanced Applied Child Care	40S

CATEGORY I

CHILD CARE

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8650	Intro to Child Care	10S
8651	Intro to Child Care	15S
8652	Intro to Infants	20S
8653	Intro to Preschool	20S
8654	Children's Behaviour	30S
8655	Curriculum Ideas	30S
8656	Human Development	30S
8657	Child Care Techniques	30S
8658	Intro to School Age	30S
8659	Intro to Applied Child Care	30S
8660	Historical Perspectives	30S
8661	Communication Skills	30S
8662	Family Dynamics & Child Abuse	40S
8663	Curriculum Planning	40S
8664	Advanced Preschool	40S
8665	Advanced School Age	40S
8666	Applied Child Care	40S
8667	Advanced Applied Child Care	40S

CATEGORY I

COSMETOLOGY

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8680	Intro to Cosmetology	10S
8681	Intro to Cosmetology	15S
8682	Beauty Basics	20S
8683	Hairstyling & Nail Services	20S
8684	Hairstyling & Beauty Services	20S
8685	Hairstyling, Wigs, & Hair Removal	30S
8686	Permanent Waving	30S
8687	Haircutting	30S
8688	Hair Colouring	30S
8689	Hair Lightening & Toning	30S
8690	Salon Services	40S
8691	Development & Proficiency	40S
8692	Certificate Preparation	40S
8693	Applied Hair Styling	40S
8694	Employability Skills	40S

CATEGORY I

DENTAL ASSISTING

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8705	Intro to Clinical Experience	10S
8706	Intro to Clinical Experience	15S
8707	Dental Materials and Equipment	20S
8708	Diagnosis Theory and Practice	20S
8709	Intro to Chairside Assisting	30S
8710	Microbiology and Sterilization	30S
8711	Interpersonal Relations	30S
8712	Life Science	30S
8713	Advanced Clinical Experience	40S
8714	Dental Practice Management	40S
8715	Advanced Chairside Assisting	40S
8716	Applied Dental Assisting	40S

CATEGORY I

DENTAL TECHNOLOGY

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8720	Intro to Dental Tech	10S
8721	Intro to Dental Tech	15S
8722	Dental Materials and Anatomy	20S
8723	Partial Dentures	20S
8724	Intro to Complete Dentures	30S
8725	Complete Dentures in Unison	30S
8726	Denture Reconstruction	30S
8727	Chrome Cobalt Frameworks	30S
8728	Inlays, Crowns & Bridges	40S
8729	Porcelain Fused to Metal	40S
8730	Advanced Complete Dentures	40S
8731	Orthodontics	40S
8732	Applied Dental Technology	40S

FAMILY AND COMMUNITY SERVICES and HEALTH Programs

CATEGORY II

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8735	Intro to Family & Community	10S
8736	Intro to Family & Community	15S
8737	Dimensions of Life	20S
8738	Human Reproduction	20S
8739	Pre-school Children	30S
1118	* Family Studies	30S
8740	Parenting	30S
8741	Health Care	30S
8742	Anatomy and Physiology	30S
1119	* Foods and Nutrition	30S
1109	* Clothing/Housing Design	30S
8743	Health and Safety	30S
8744	Babysitting	30S
8745	Advanced Child Care	40S
8746	Advanced Health Care	40S
8747	Basic Nursing Theory	40S
8748	Critical Care Skills	40S

* See Home Economics

(cont'd.)

FAMILY AND COMMUNITY SERVICES

CATEGORY II and **HEALTH** Programs (cont'd.)

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8749	Applied Geriatric Care	40S
8750	Food Preparation	40S
8751	Advanced Textiles	40S
8752	Behaviour Management	40S
8753	Applied Family and Community	40S
8754	Intro to Applied Health Care	40S
8755	Applied Health Care	40S

CATEGORY I

FOOD SERVICES

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8770	Intro to Food Services	10S
8771	Intro to Food Services	15S
8772	Fruits and Vegetables	20S
8773	Intro to Soups, Stocks and Sauces	20S
8774	Intro to Baking and Desserts	30S
8775	Meats and Poultry	30S
8776	Hospitality Basics	30S
8777	Fish and Seafood	30S
8778	Garde Manger	30S
8779	Baking Ingredients	30S
8780	Cake Production & Decoration	30S
8781	Standardized Recipes	30S
8782	Kitchen Management	40S
8783	Advanced Baking and Desserts	40S
8784	Special Presentations	40S
8785	Advanced Meat Cutting	40S
8786	Applied Food Services	40S
8787	Special Pastries	40S
8788	Bakery Management	40S
8789	Wedding/Occasional Cakes	40S

CATEGORY II

HEALTH CARE ASSISTANT CVE

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8800	Intro to Health Care Assistant	10S
8801	Intro to Health Care Assistant	15S
8802	The Life Cycle	40S
8803	Human Relations	40S
8804	Safety in Health Care	40S
8805	Body Mechanics and Movement	40S
8806	Nutrition and Hygiene	40S
8807	Procedures and Treatments	40S
8808	Aging and Related Disorders	40S
8809	Life Management	40S

CATEGORY II

HEALTH SERVICES ADMISSIONS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8815	Intro to Health Services Admissions	10S
8816	Intro to Health Services Admissions	15S
8817	Health Care Environment	20S
8818	Medical Terminology	20S
8819	Basic Admitting Procedures	30S
8820	Medico-Legal Issues	30S
8821	Reporting to the Care Facility	40S
8822	Applied Health Services Admissions	40S

CATEGORY II HOTEL HOSPITALITY CVE

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8825	Beverage Services	40S
8826	Dining Room Skills	40S
8827	Food Preparation	40S
8828	Customer Services	40S
8829	Hotel and Consumer Math	40S
8830	Tourism	40S
8831	Reception Desk Skills	40S
8832	Housekeeping Skills	40S
8833	Management Skills	40S
8834	Applied Reception Services	40S
8835	Applied Food Prep	40S
8836	Applied Dining Room Services	40S
8837	Applied Management	40S

CATEGORY II

HUMAN SERVICES

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8845	Intro to Cluster Shops	10S
8846	Intro to Cluster Shops	15S
8847	Intro to Superhost Program	20S
8848	First Aid and CPR	20S
8849	Superhost Program	30S
8850	World of Work and Cluster Shops	30S
8851	Applied Cluster Shops	40S
8852	Human Services Projects	40S
8853	Applied Human Services	40S

CATEGORY II

PHARMACY TECHNICIAN CVE

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
8884	(Introduction to H.S. Tech)	10S
8885	(Introduction to H.S. Tech)	15S
8860	Intro to Pharmacy Tech	10S
8861	Intro to Pharmacy Tech	15S
8862	Communication Skills	40S
8863	Medical Terminology	40S
8864	Compounds and Medication	40S
8865	Dispensing Functions	40S
8866	Pharmaceutical Calculations	40S
8867	Classification of Drugs	40S
8868	Inventory Control	40S
8869	Pharmacy Law and Ethics	40S
8870	Sterile Products	40S
8871	Applied Pharmacy Tech	40S

CATEGORY II

HOME ECONOMICS

The following courses are eligible for unit-credit support. As noted, some are also articulated with Vocational/Technical programs.

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
1118	Family Studies	10G 20G 30G 40G 30S 40S
0485	Family Studies	15G 25G
1109	Clothing Housing & Design	10G 20G 30G 40G 30S 40S
0483	Clothing Housing & Design	15G 25G
1119	Food and Nutrition	10G 20G 30G 40G 30S 40S
0484	Food and Nutrition	15G 25G
0482	Home Economics	10G 15G 20G 25G 30G 40G

Note re: Articulation with Technology Education (Vocational Industrial) Programs

1. Any of the above courses at the 10G or 15G level will be accepted as equivalent to "(Introduction to H.S. Tech 10S)" or "(Introduction to H.S. Tech 15S)" respectively.

2. The following Senior 2 courses will be accepted as equivalents:

   a) Family Studies 20G/25G with:
      - "Intro to Child Care 10S" (or 15S respectively)
      - "Intro to Family and Community 10S" (or 15S respectively)
      - "Intro to Health Care Assistant 10S" (or 15S respectively)

   b) Clothing Housing and Design 20G/25G with:
      - "Intro to Family and Community 10S" (or 15S respectively)

c) Food and Nutrition 20G/25G with:
   - "Intro to Family and Community 10S" (or 15S respectively)
   - "Intro to Food Services 10S" (or 15S respectively)
   - "Intro to Health Care Assistant 10S" (or 15S respectively)

d) Home Economics 20G/25G with:
   - "Intro to Child Care 10S" (or 15S respectively)
   - "Intro to Family and Community 10S" (or 15S respectively)
   - "Intro to Health Care Assistant 10S" (or 15S respectively)
   - "Intro to Food Services 10S" (or 15S respectively)

3. The following specific courses may be used for part of the "Family and Community Services" and "Health" programs.

   a) Family Studies 30G
   b) Clothing Housing and Design 30G
   c) Food and Nutrition 30G

4. Any other articulation between Senior 3 and Senior 4 Home Economics unit-credits, and Vocational/Technical unit-credits, may be arranged locally between the feeder school(s) and the receiving school.

CATEGORY I

INDUSTRIAL ARTS

The following courses are eligible for unit-credit support. As noted, most are also articulated with Vocational/Technical programs.

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
7958	Intro to Graphics Technology	10G
7959	Intro to Graphics Technology	15G
7960	Graphics Technology	20G
7961	Graphics Technology	25G
7962	Electronic Communication	30G
7972	Intro to Elec-Electronics Technology	10G
7973	Intro to Elec-Electronics Technology	15G
7974	Electricity Electronics Technology	20G
7975	Electricity Electronics Technology	25G
7976	Communication Electronics	30G
7965	Intro to Power Mechanics Technology	10G
7966	Intro to Power Mechanics Technology	15G
7967	Power Mechanics Technology	20G
7968	Power Mechanics Technology	25G
7969	Automotive Technology	30G
7980	Intro to Metalwork Technology	10G
7981	Intro to Metalwork Technology	15G
7982	Metalwork Technology	20G
7983	Metalwork Technology	25G
7984	Machine Tool Technology	30G
7990	Intro to Woodwork Technology	10G
7991	Intro to Woodwork Technology	15G
7992	Woodwork Technology	20G
7993	Woodwork Technology	25G
7994	Construction Technology	30G
7995	Furniture Design Technology	30G
7996	Manufacturing Technology	30G

CATEGORY II

INDUSTRIAL ARTS

DEPT. CODE	UNIT-CREDIT TITLE	COURSE NUMBER
7951	Intro to Drafting Design Technology	10G
7952	Intro to Drafting Design Technology	15G
7953	Drafting Design Technology	20G
7954	Drafting Design Technology	25G
7955	Product Manufacturing Drafting	30G

Note re: Articulation with Technology Education (Vocational Industrial) Programs

1. The following Senior I courses will be equivalent to "Introduction to L.I. Tech 10S" for full credit, (or to "Introduction to L.I. Tech 15S" for half-credit transfers):

   a) Intro to Drafting Design Technology 10G
   b) Intro to Drafting Design Technology 15G
   c) Intro to Graphics Technology 10G
   d) Intro to Graphics Technology 15G
   e) Intro to Elec-Electronics Technology 10G
   f) Intro to Elec-Electronics Technology 15G

2. The following Senior 1 courses will be equivalent to "Introduction to H.I. Tech 10S" for full credit, (or to "Introduction to H.I. Tech 15S" for half-credit transfers):

   a) Intro to Power Mechanics Technology 10G
   b) Intro to Power Mechanics Technology 15G
   c) Intro to Metalwork Technology 10G
   d) Intro to Metalwork Technology 15G
   e) Intro to Woodwork Technology 10G
   f) Intro to Woodwork Technology 15G

3. The following Senior 2 courses will be articulated and accepted as equivalents:

   a) Drafting Design Technology 20G/25G with:
      - "Intro to Advertising Art 10S" (or 15S respectively)
      - "Intro to Drafting 10S" (or 15S respectively)
      - "Board Drafting 10S" (or 15S respectively)

b) Graphics Technology 20G/25G with:
- "Intro to Advertising Art 10S" (or 15S respectively)
- "Intro to Graphics 10S" (or 15S respectively)
- "Intro to Photography 10S" (or 15S respectively)

c) Electricity Electronics Technology 20G/25G with:
- "Intro to Electronics 10S" (or 15S respectively)
- "Intro to Electronic Communication 10S" (or 15S respectively)
- "Intro to Electricity 10S" (or 15S respectively)
- "Intro to Industrial Electricity 10S" (or 15S respectively)
- "Intro to Industrial Electronics 10S" (or 15S respectively)

d) Power Mechanics Technology 20G/25G with:
- "Intro to H.D. Mechanics 10S" (or 15S respectively)
- "Intro to Power Mechanics 10S" (or 15S respectively)

e) Metalwork Technology 20G/25G with:
- "Intro to Auto Body Repair 10S" (or 15S respectively)
- "Intro to Aerospace Tech 10S" (or 15S respectively)
- "Intro to Metals 10S" (or 15S respectively)
- "Intro to Welding 10S" (or 15S respectively)

f) Woodwork Technology 20G/25G with:
- "Intro to Building Construction 10S" (or 15S respectively)

4. Any articulation between Senior 3 Industrial Arts unit-credits, and Vocational/Technology unit-credits, may be arranged locally between the feeder school(s) and the receiving school.